

**CLAIMS**

1. Electrical switch unit for an electric tool, wherein  
5 the switch unit comprises heat-dissipating components,  
characterized in that the switch unit comprises a fan which  
is adapted to cool the heat-dissipating components.

2. Switch unit as claimed in claim 1, characterized in  
that the fan is adapted to generate an airflow moving along  
10 the heat-dissipating components.

3. Switch unit as claimed in claim 1 or 2, characterized  
in that at least some of the heat-dissipating components is  
thermally coupled to a cooling body, and that the fan is  
adapted to cool the cooling body.

15 4. Switch unit as claimed in claim 3, characterized in  
that the fan is adapted to generate an airflow moving along  
the heat-dissipating components.

5. Switch unit as claimed in any of the foregoing  
claims, characterized by a temperature sensor for controlling  
20 the fan subject to the temperature of the heat-dissipating  
components sensed by the temperature sensor.

6. Switch unit as claimed in any of the foregoing  
claims, characterized by means for sending to the fan a  
signal representing power.

25 7. Switch unit as claimed in any of the foregoing  
claims, characterized in that the fan is placed in a wall of  
the housing of the switch unit.

8. Switch unit as claimed in any of the foregoing  
claims, characterized in that the fan is placed upstream of  
30 the components for cooling in the airflow.

9. Switch unit as claimed in claim 8, characterized in  
that a suction opening for air is arranged upstream of the  
fan in the housing of the tool.

10. Switch unit as claimed in claim 8 or 9,  
characterized in that the fan is adapted to generate an  
airflow extending through the motor of the tool.

11. Switch unit as claimed in claim 10, characterized in  
5 that the fan is adapted to generate a first and a second  
parallel airflow, the first of which cools the heat-  
dissipating components and the second of which is guided  
through the motor.

12. Electric tool according to any of the foregoing  
10 claims, characterized by a switch unit as claimed in any of  
the foregoing claims.